\Diamond	Main ship service generators NOTE: Two independent sources of power required.	SOLAS 74/78 II-1/41
	• F/O piping	
	Cooling linesControls	
\Diamond	Emergency generator room	SOLAS 74/78 II-1/43
	Test operation of prime mover	
	Personnel safety	
	Ventilation adequateElectrical switchboard	
	- Grounds	
\Diamond	Bilge pumps	SOLAS 74/78 II-1/21
	Two required	
Not	es:	

Section 4: Drills

\Diamond	<u>Fire</u>	Drill:
------------	-------------	--------

Initial notifications	Familiarity with duties	Space isolation
General alarms / signals	Familiarity with equipment	Smoke control
Crew response	Fire pumps started	Communications w/ bridge
Properly dressed / equipped	Two jets of water	
Language understood by crew	Fire doors and dampers	
(SOLAS 74/78 III/18.3; MSM Vol	I. II/D5.C.7.i; NVIC 6-91)	
Location:		Time on Scene:
Notes:		
-		
-		·
	_	

Fixed fire extinguishing systems: cargo, machinery, and other spaces

SOLAS 74/78 II-2/21

 Tanks, cylinders, piping, controls, alarms, and release mechanisms in good condition and available for immediate use

Type of system: (circle appropriate type)				
Low Pressure CO ₂	High Pressure CO ₂	Halon	Foam	

<u>Pol</u>	<u>lution Prevention:</u> (spot-check at reexa	aminations)					
	Pollution placard posted 33 CFR 155.450						
	MARPOL V placard posted	MARPOL Ax. V/9					
	Garbage Shipboard garbage properly disposed Incinerator Evidence of use (clinkers) Safety of burner assembly Electrical controls Garbage Management Plan	MARPOL Ax. V/3 33 CFR 151.63 MARPOL Ax. V/9					
	Oil and hazmat Fuel oil and bulk lubricating oil discharge containment	33 CFR 155.320					
	Prohibited oil spaces	33 CFR 155.470					
	Oily-water separating equipment, bilge alarm, and bilge monitor	MARPOL Ax. I/16 33 CFR 155.380					
	Alarm, recorderStandard Discharge Connection	33 CFR 155.430					
Note	Notes:						

Section 5: Expanded Examination Items

Manuals and Instructions:

0	Check for presence (in appropriate language)
	of the following documents

 Instructions for maintenance and operation of all installations / equipment for fighting and containing a fire

SOLAS 74/78 II-2/20

SOLAS 74/78 III/18.2

Training manual for lifesaving appliances

Instructions for onboard maintenance of lifesaving appliances

Stability booklet, associated stability plans and information

SOLAS 74/78 III/51 SOLAS 74/78 III/19.3 SOLAS 74/78 III/52 SOLAS 74/78 II-1/22 ICLL 66 Reg. 10

O Cargo gear certificate

Grain loading manual

SOLAS 74/78 VI/9.1

Bulk vessel (stability and grain manuals often combined)

O Human Factors

STCW Code

 Determine if the appropriate crew members are able to understand the information given in manuals, instructions, etc., relevant to the safe condition of the ship and its equipment, and that they are aware of the requirements for maintenance, periodical testing, training, drills, and recording of logbook entries.

Safety Management System (SMS):

NOTE: Requirements and guidance for inspecting vessel Safety Management Systems are detailed in SOLAS 74/78, Chapter IX and NVIC 4-98.

- O Documentation (may be in the form of a Safety Management Manual)
 - Controlled documents
 - Safety and Environmental policy
 - Master of vessel familiar with SMS
 - Language understood by crew
 - Documentation identifies:
 - Written procedures kept on board vessel
 - Essential or critical equipment identified (or a separate manual containing this information)
 - Procedures for reporting non-conformities
 - Company's designated person(s) (name or title, and address)

Notes:						

Ш	Lifebuoys (spot-check)		O	Audits
	 Condition Bridge location Quick release system Smoke and light float Deck location 50% with waterlights Retro-reflective tape 	SOLAS 74/78 III/19.2 SOLAS 74/78 III/7.1 SOLAS 74/78 III/30.2.7		 Internal audits conducted as specified by SMS <i>NOTE:</i> Do NOT examine internal audit records. External audit results reviewed Status of open non-conformities relevant to deficiencies leading to detention Status of implementation of corrective and preventative measure
	Lifejackets—watchstanders and crew (spot-check)	002.07.11/011/00:2:1	0	SMS review conducted by Master in accordance with procedures in SMS
	 Condition Stowage Retro-reflective material Light 	SOLAS 74/78 III/19.2 SOLAS 74/78 III/7.2.2 SOLAS 74/78 III/30.2.7 SOLAS 74/78 III/27.2		 Non-conformities identified Report of non-conformity prepared and sent in accordance with procedures established by SMS
	• Whistles	SOLAS 74/78 III/32.1.6	<u>Nav</u>	<u>vigation Safety:</u>
	Line-throwing appliances (spot-check)4 charges	SOLAS 74/78 III/17	0	Test navigation equipment listed in Section 3 to the extent necessary to determine if
	Pyrotechnics (spot-check)	SOLAS 74/78 III/6.3		equipment is operating properly.
	 12 distress flares Immersion suits and thermal protective aids (spot-check) 	SOLAS 74/78 III/27.3	0	Human Factors (spot-check): determine if deck officers are familiar with the following items:
	ConditionRetro-reflective material	SOLAS 74/78 III/19.2 SOLAS 74/78 III/30.2.7		 Operation of bridge control and navigational equipment Use of nautical publications and charts Ship maneuvering characteristics
Fire	e Protection:			 Lifesaving signals Bridge procedures, instructions, manuals, etc.
	 Fire control plan Permanently exhibited Language of flag state Copy permanently stored in weathertight container outside deckhouse 	SOLAS 74/78 II-2/20		 Changing steering from automatic to manual and vice versa Preparations for arrival and departure Communications with engineroom Use of VHF Raising the alarm Abandon ship drill and fire drill
Note	es:		Note	es:

\Diamond	Mooring winches / capstans		<u>Life</u>	esaving Equipment:	
	FoundationsCables / hooks		0	Lifeboats/liferafts/rescue boats	
Car	 Boom Brake Electrical (wiring) or hydraulic piping Ladders / rails go Operations:			 Ensure effective operation of winches, davits, falls, sheaves, etc. (Lower at least one lifeboat to the water.) Test lifeboat and rescue boat flemming gear and/or engines Verify presence/condition of lifeboat equipment 	SOLAS 74/78 III/19 SOLAS 74/78 III/41
	Cargo securing manual	SOLAS 74/78 VI/5.6 SOLAS 74/78 VII/6.6	0	 Retro-reflective tape Lighting Emergency communication equipment 	SOLAS 74/78 III/11.4
	Packaged hazmat Hazmat containers stowed in accordance with stowage plan and DCM Unsafe / damaged containers Leaking / damaged packages Placarding "No Smoking" signs posted	SOLAS 74/78 VII/6 49 CFR 176.30 49 CFR 176.50 SOLAS 74/78 VII/4 49 CFR 172.50 49 CFR 176.60	0	 2-way VHF radiotelephone apparatus Radar transponders Survival craft EPIRBs Onboard communication and alarm system Line-throwing appliance	SOLAS 74/78 III/6.2 SOLAS 74/78 III/6.4 SOLAS 74/78 III/17.49
	Bulk solid hazmat Stowage conditions observed		0	 Specifications and equipment Pilot ladders and hoists in good condition 	SOLAS 74/78 V/17
	 Special additional requirements Additional requirements of special permit 	46 CFR 148.03-11 46 CFR 148.04 46 CFR 148.01-11	0	Distress signals 12 red rocket parachute flares	SOLAS 74/78 III/6.3
	 Cargo ventilation systems Continuously running Remote controls outside space Indicators on bridge 	SOLAS 74/78 II-2/53			
	Hazardous wiringLights and fixturesWiring	SOLAS 74/78 II-2/53			
	Ramps / watertight doors Watertight integrity Seals Locking arrangements Controls / warning alarms	ICLL 66 Reg. 21			
Note			Not	es:	

Refrigerator and stores spaces Storage free of insects Sanitation Toilets working (1/8 crew) Showers operate (1/8 crew) Wash basins Lighted / heated / ventilated	COMDTINST 16711.12A ILO 147 COMDTINST 16711.12A ILO 147	 Firemen's outfits (spot-check) Two lockers Two outfits Protective clothing Helmet, boots, and gloves Lamp Ax Breathing apparatus and lifeline 	SOLAS 74/78 II-2/17.3
 Reasonably clean General safety Safe access to all spaces Spaces adequately lighted No electrical hazards Warning notices posted as necessary Muster lists and emergency instructions Available for each person Posted in conspicuous places 	COMDTINST 16711.12A ILO 147 SOLAS 74/78 III/8	 Fixed fire extinguishing arrangements in cargo spaces for vessels ≥ 2000 GT Vessels with ro-ro spaces Fixed fire detection and alarm system (vessels built after 01 FEB 92) Fixed fire extinguishing system Portable fire extinguishers and additional fire equipment Ventilation system requirements Explosion-proof fixtures 	SOLAS 74/78 II-2/53.1 SOLAS 74/78 II-2/53.2
Language understood by crew Shows crew member duties Structural Integrity NOTE: Request records of Outstanding Conditions of Class depending on classification society.) Conditions of Class mustage, etc. Conditions may also identify ships overdue for required service.	ay identify structural defects,	 Vessels with cargo holds intended for carrying motor vehicles with fuel in their tanks Fixed fire detection and alarm system (vessels built after 01 FEB 92) Fixed fire extinguishing system Portable fire extinguishers and additional fire equipment Ventilation system requirements Explosion-proof fixtures 	
Hull structure Frame pulling away Fractures in corners Holes in main decks Leaks / patching on ballast tanks Bulkheads / decks warped Excessive wastage	ICLL 66 Reg. 1	 Vessels carrying dangerous goods in packaged or solid bulk form Special requirements (see Tables 54.1, 54.2, and 54.3 of II-2/54.2.3 for specific requirements) Document of Compliance (flag state) 	SOLAS 74/78 II-2/54 SOLAS 74/78 VII/1-6
Notes:		Notes:	

	Communications • VHF radio	SOLAS 74/78 IV/6.3 33 CFR 26.03	0	Main engine / vital auxiliaries (spot-check) • F/O pumps / piping	SOLAS 74/78 II-1/27
	Steering gear instructions Instructions Emergency instructions Block diagram	33 CFR 164.35		 S/W pumps / piping J/W pumps / piping L/O pumps / piping Piston cooling pumps / piping Air compressors / receivers 	
	Maneuvering facts sheet with warning statement	33 CFR 164.35	0	 Fuel / oil purifiers H/O heaters / transfer pump Steering gear alarms 	COLAC 74/70 II 4/00
	Radiotelephone (VHF-FM)	33 CFR 26.03 & 26.04	9	Low hydraulic oil Loss of power	SOLAS 74/78 II-1/29
	EPIRB (406 MHz) • Float-free amount	SOLAS 74/78 IV/7.1.6	0	Loss of phraseOverload	
_	Battery date currentHydrostatic release		0	Human Factors: determine if personnel are familiar with the operation of the following items	STCW Table A-III
	GMDSSAdditional radio equipment for area of operation	SOLAS 74/78 IV/8 SOLAS 74/78 IV/9 SOLAS 74/78 IV/10 SOLAS 74/78 IV/11		 Emergency generator: Actions necessary before engine can be started 	
\Diamond	Operationally test bridge steering	SOLAS 74/78 II/1-29		 Different methods by which generator may be started 	
	 Test power/control pumps independently Test follow-up and non-follow-up controls Rudder angle indicator accurate Activate loss of power alarm 			 Stand-by generator engine: Methods to start engine automatically or manually Blackout procedures Load-sharing system 	
\Diamond	GMDSS lifeboat radios (VHF)3 if over 500 GTOperable condition	SOLAS 74/78 III/6.2		 Steering gear: Action needed to bring main and auxiliary into operation Changing steering from automatic to manual 	
\Diamond	9 GHz radar transponder (SART)	SOLAS 74/78 III/6.2		and vice versa	
	 Vessels > 300 GT and < 500 require 1 Vessels > 500 GT require 2 Stowed so to be rapidly placed in survival craft, or stowed in survival craft 	NVIC 9-93		 Bilge pumps: Starting procedures for main and emergency bilge pump Appropriate valves to operate Fire pumps: 	
Note	oc.			Starting procedures for main and emergency fire pumps	
14010			Note	Appropriate valves to operate S:	

\Diamond	Oil transfer procedures Posted / available in crew's language List of products carried by vessel Description of transfer system including a line diagram of piping Number of persons required on duty Duties by title of each person Means of communication Procedures to top off tanks Procedures to report oil discharges	33 CFR 155.720
<u>Car</u>	go Records:	
	 Packaged hazardous materials Dangerous Cargo Manifest Division 1.1 or 1.2 explosives (check for required permit for designated dangerous cargo) Training records (check records of crew members considered to be hazmat employees) DOT hazmat registration 	SOLAS 74/78 VII/5 49 CFR 176.30 49 CFR 176.100 49 CFR 172.700-704 49 CFR 176.13
	Bulk solid hazmat Special permit on board (unlisted cargoes only) Shipping papers DCM on board Cargo inspections carried out and logged	49 CFR 107.601 46 CFR 148.01-7 46 CFR 148.02-1 46 CFR 148.02-3 46 CFR 148.03-7
Note	es:	

Nonconforming Vessel. Any vessel failing to comply with one or more applicable requirements of U.S. law or international conventions is a nonconforming vessel. A nonconforming vessel is not necessarily a substandard vessel unless the discrepancies endanger the vessel, persons on board, or present an unreasonable risk to the marine environment.

Substandard Vessel. In general, a vessel is regarded as substandard if the hull, machinery, or equipment, such as lifesaving, firefighting and pollution prevention, are substantially below the standards required by U.S. laws or international conventions, owing to:

- The absence of required principal equipment or arrangement;
- Gross noncompliance of equipment or arrangement with required specifications;
- Substantial deterioration of the vessel structure or its essential equipment;
- Noncompliance with applicable operational and/or manning standards; or
- Clear lack of appropriate certification, or demonstrated lack of competence on the part of the crew.

If these evident factors as a whole or individually endanger the vessel, persons on board, or present an unreasonable risk to the marine environment, the vessel should be regarded as a substandard vessel.

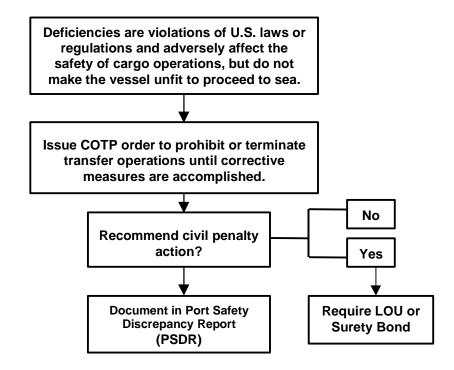
Valid Certificates. A certificate that has been issued directly by a contracting government or party to a convention, or on the behalf of the government or party by a recognized organization, and contains accurate and effective dates, meets the provisions of the relevant convention, and corresponds to the particulars of the vessel and its equipment.

Manning Certification:

	Safe Manning Document	SOLAS 74/78 V/13
	 Manning in accordance with docun <i>NOTE:</i> If vessel does not have a S Document or is not manned in acc Safe Manning Document, local Co- contacted and the deficiency resolvessel's departure from port. Review copy of crew list 	afe Manning ordance with nsulate must be
	Officers' certificates	STCW 95 I/2
	 Master and chief engineer licenses Navigating and engineering officers current; NOTE: 3000 kW = 4023 H Flag endorsement Medical certificates 	current STCW 95 I/10 STCW 95 VI/1 S' licenses STCW 95 VI/2
	Crew documents	STCW 95 VI/1
	 Documents current Medical certificates valid (issued by Minimum age 15 	y flag state) ILO 147 Art. II
	Rest periods	STCW 95 VIII/1
	Review watch schedules	
Log	gs and Manuals:	
	Lifesaving equipment maintenar	nce record SOLAS 74/78 III/19
	 Periodic checks as required Visual inspection of survival craft / launching appliances Operation of lifeboat / rescue boat Lifesaving appliances, including life examined 	rescue boat and engines
	Emergency training and drills	SOLAS 74/78 III/18
	 Onboard training in use of lifesavin crew members) SOLAS training manual Logbook records 	g equipment (all SOLAS 74/78 III/18.5
	 Weekly and lifeboat drills 	SOLAS 74/78 III/25
Note	98:	

Requiring Corrective Measures Prior to Cargo, Bunkering or Lightering Operations

(NO DETENTION)



Examples include the following:

- Oil transfer procedures incomplete.
- Information on properties and hazards of cargoes not on board.
- High and low level alarms inoperative.

Section 2: Certificates and Documents

International Certificates:

Name of Certificate	Issuing Agency	# QI	Port Issued	Issue Date	Exp. Date	Endors. Date
Certificate of Registry No Change						
Classification Document No Change						
Certificate of Financial Responsibility (COFR) No Change	nsce /					
Safety Construction (SLC) No Change						
Safety Equipment (SLE) No Change						
Safety Radio (SLT) No Change						

Requiring Corrective Measures Prior to Entry

Deficiencies discovered prior to a vessel's entry into port present such a grave risk to the port or the environment that the OCMI/COTP may wish to prevent the vessel from entering port until the deficiencies are corrected.

Issue COTP order if the vessel is within the territorial sea.

Examples include the following:

- · Leaking tanks.
- · Carrying dangerous cargoes with expired documents.
- Carrying incompatible cargoes.
- Invalid ISM certificates.
- COFR not on board.

Involved Parties & General Information: Notes: Owner's Agent Individual Phone Number Charterer's Agent Individual Phone Number Same as Owner's Agent Owner—Listed on DOC (if applicable), or COFR No Change Operator

2

No Change

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Notes:	
<u></u>	

Total Time Spent Per Activity:

Regular Personnel (Active Duty)								
ACTIVITY TYPE	ACTIVITY	TRAINING	(PERS) MI					

TOTAL ADMIN HOURS	TOTAL TRAVEL HOURS

Reserve Personnel								
ACTIVITY TYPE	ACTIVITY	TRAINING	(PERS) MI					

TOTAL ADMIN HOURS	TOTAL TRAVEL HOURS
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Auxiliary Resources						
TOTAL BOAT HOURS	TOTAL AIRCRAFT HOURS					

Conversions:

Distance and Energy								
Distance	and Energy							
Kilowatts (kW)		(1.341		Hor	Horsepower (hp)		
Feet (ft)	×		3.281	=	Me	Meters (m)		
Long Ton (L	T) X	(.98421	=	Me	tric Ton (t))	
Liquid (N	IOTE: Values are	approxim	ate.)					
Liquid	b	bl/LT		m³/t	bb	ol/m³		bbl/t
Freshwater	(6.40		1.00	6	.29		6.29
Saltwater 6.24			.975	6	.13		5.98	
Heavy Oil 6.77			1.06	6	.66		7.06	
DFM	DFM 6.60 1.19		1.19	7	.48		8.91	
Lube Oil 7.66			1.20	7	7.54		9.05	
Weight								
1 Long Ton = 2240 lbs			1 Metric Ton		=	2204 lbs	3	
1 Short Ton	= 2000 lbs		1 Cubic Foot		t =	7.48 gal		
1 Barrel (oil)	= 5.61 ft = 6.29 m ³	42 gal =	1 psi		=	= .06895 Bar = 2.3106 ft of water		2.3106 ft
Temperature: Fahrenheit = Ce		elsius	(°F = 9/5 °C	C + 32	and °C =	= 5/9	(°F – 32))	
0 =	-17.8	80	=	26.7		200	=	93.3
32 =	0	90	=	32.2		250	=	121.1
40 =	4.4	100	=	37.8		300	=	148.9
50 =	10.0	110	=	43.3		400	=	204.4
60 =	15.6	120	=	48.9		500	=	260
70 =	21.1	150	=	65.6		1000	=	537.8
Pressure: Bars = Pounds per s		squar	e inch					
1 Bar =	14.5 psi	5 Bars	=	72.5 psi		9 Bars	=	130.5 psi
2 bars =	29.0 psi	6 Bars	=	87.0 psi		10 Bars	=	145.0 psi
3 Bars =	43.5 psi	7 Bars	=	101.5 psi				
4 Bars =	58.0 psi	8 Bars	=	116.0 psi				